January 1990

SPECIAL ARTICLES

1 **Expert Advice. CT and sonographically guided needle biopsy: current techniques and new innovations.** *Charboneau JW, Reading CC, Welch TJ*

11 **Meeting News. The Society of Uroradiology scientific session, September 1989.** *Whalen E*

17 **Perspective. How to evaluate the radiology literature.** *Black WC*

CHEST RADIOLOGY

23 **Radiographic detection of esophageal malpositioning of endotracheal tubes.** *Smith GM, Reed JC, Choplin RH*

27 **Visceral and nodal calcification in patients with AIDS-related *Pneumocystis carinii* infection.** *Radin DR, Baker EL, Klatt EC, et al.*

33 **The anterior wall stripe of the left lower lobe bronchus on the lateral chest radiograph: CT correlative study.** *Lang EV, Friedman PJ*

41 **CT appearance of the retroaortic anastomoses of the azygos system.** *Takasugi JE, Godwin JD*

45 **CT and chest radiography are equally sensitive in the detection of pneumothorax after CT-guided pulmonary interventional procedures.** *Murphy FB, Small WC, Wichman RD, Chalif M, Bernardino ME*

47 **Case report. Life-threatening hemorrhage due to percutaneous transthoracic intervention: importance of the internal mammary artery.** *Glassberg RM, Sussman SK*

51 **Lung hernia: radiographic features.** *Bhalla M, Leitman BS, Forcade C, Stern E, Naidich DP, McCauley DI*

55 **Pictorial essay. CT of blunt chest trauma.** *Kerns SR, Gay SB*

61 **Dysphagia due to mediastinal fibrosis in advanced pulmonary tuberculosis.** *Ramakantan R, Shah P*

65 **Case report. Malignant fibrous histiocytoma of the lung in a patient with a history of asbestos exposure.** *Reifsnyder AC, Smith HJ, Mullhollan TJ, Lee EL*

67 **Case report. The differentiation of radiation fibrosis from recurrent neoplasia: a role for ^{31}P MR spectroscopy?** *Charles HC, Baker ME, Hathorn JW, Sostman D*

69 **Case report. Effusion in the superior pericardial recess simulating a mediastinal mass.** *Winer-Muram HT, Gold RE*

GASTROINTESTINAL RADIOLOGY

73 **Ileoanal pouches: comparison of CT, scintigraphy, and contrast enemas for diagnosing postsurgical complications.** *Thoeni RF, Fell SC, Engelstad B, Schrock TR*

79 **CT of the extrahepatic bile ducts: wall thickness and contrast enhancement in normal and abnormal ducts.** *Schulte SJ, Baron RL, Teefey SA, et al.*

87 **Pictorial essay. Caudate lobe of the liver: anatomy, embryology, and pathology.** *Dodds WJ, Erickson SJ, Taylor AJ, Lawson TL, Stewart ET*

95 **Gastrointestinal complications of cytosine-arabinoside chemotherapy: findings on plain abdominal radiographs.** *Tjon A Tham RTO, Vlasveld LT, Willemze R*

99 **The diagnosis of bowel infarction: a comparison of plain films and CT scans in 23 cases.** *Smerud MJ, Johnson CD, Stephens DH*

105 **Case report. Blue rubber bleb nevus syndrome: CT diagnosis of intussusception.** *Tyrrel RT, Baumgartner BR, Montemayor KA*

107 **Sonographic detection of pneumoperitoneum in patients with acute abdomen.** *Lee DH, Lim JH, Ko YT, Yoon Y*

GENITOURINARY RADIOLOGY

111 **Self-retaining intraurethral stent: an alternative to long-term indwelling catheters or surgery in the treatment of prostatism.** *Yachia D, Lask D, Rabinson S*

115 **The posterior intercostal approach for percutaneous renal procedures: risk of puncturing the lung, spleen, and liver as determined by CT.** *Hopper KD, Yakes WF*

119 **Case report. Surgical lateral ovarian transposition: CT appearance.** *Newbold R, Safrit H, Cooper C*

MUSCULOSKELETAL RADIOLOGY

121 **Rotator cuff tears: diagnosis with sonography.** *Vick CW, Bell SA*

125 **Sonographic evaluation of bone production at the distraction site in Ilizarov limb-lengthening procedures.** *Young JWR, Kostrubiak IS, Resnik CS, Paley D*

129 **Review. The current role of tenography and bursography.** *Baker KS, Gilula LA*

135 **Treatment of suppurative arthritis by percutaneous catheter drainage.** *Renner JB, Agee MW*

PEDIATRIC RADIOLOGY

139 **Ovarian teratomas: a comparison of the sonographic appearance in prepubertal and postpubertal girls.** *Sisler CL, Siegel MJ*

143 **Sonography of facial features of alobar and semilobar holoprosencephaly.** *McGahan JP, Nyberg DA, Mack LA*

149 **Technical note. Magnet catheter for removal of magnetic foreign bodies.** *Towbin RB, Dunbar JS, Rice S*

NEURORADIOLOGY

151 **Assessment of extradural degenerative disease with Gd-DTPA–enhanced MR imaging: correlation with surgical and pathologic findings.** *Ross JS, Modic MT, Masaryk TJ, Carter J, Marcus RE, Bohlman H*

159 **Tears of the anulus fibrosus: assessment with Gd-DTPA–enhanced MR imaging.** *Ross JS, Modic MT, Masaryk TJ*

163 **Synovial cysts of the lumbosacral spine: diagnosis by MR imaging.** *Liu SS, Williams KD, Drayer BP, Spetzler RF, Sonntag VKH*

167 **MR imaging of Tolosa-Hunt syndrome.** *Yousem DM, Atlas SW, Grossman RI, Sergott RC, Savino PJ, Bosley TM*

VASCULAR RADIOLOGY

171 **Percutaneous transluminal angioplasty of the infrapopliteal arteries: results in 53 patients.** *Bakal CW, Sprayregen S, Scheinbaum K, Cynamon J, Veith FJ*

175 **Diagnosis of femoropopliteal venous thrombosis with MR imaging: a comparison of four MR pulse sequences.** *Totterman S, Francis CW, Foster TH, Brenner B, Marder VJ, Bryant RG*

179 **Technical note. Catheter for conversion of retrograde to antegrade femoral artery catheterization.** *Patel YD*

181 **Case report. Transcatheter embolization of a ruptured abdominal aortic stump.** *Terasaki KK, Allgood M, Finck EJ, Pentecost MJ*

183 **Technical note. Simple technique for redirecting malpositioned central venous catheters.** *Recht MP, Burke DR, Meranze SG, Cope C*

RADIATION BIOLOGY

185 **Estimated fetal radiation dose from multislice CT studies.** *Felmlee JP, Gray JE, Leetzow ML, Price JC*

OTHER CONTENT

Book reviews and videotape reviews 16, 32, 40, 50, 54, 64, 72, 86, 94, 114, 124, 134, 142, 158

71 **ARRS 1990 resident award papers information**

118 **Memorial, Paul L. Rogers**

191 **The Society of Uroradiology 1989 meeting abstracts from 1989**

199 **Letters**

206 **Books received**

207 **Review of current literature**

212 **Forthcoming articles**

213 **News**

216 **Invitation to the 1990 ARRS meeting**

219 **1990 ARRS meeting summary**

220 **ARRS membership information and application**

223 **American Roentgen Ray Society information**

224 **Classified advertisements**

A3 **Guidelines for authors**

A8 ***AJR* business and subscriber information**

January 1990

SPECIAL ARTICLES

1 **Expert Advice. CT and sonographically guided needle biopsy: current techniques and new innovations.** *Charboneau JW, Reading CC, Welch TJ*

11 **Meeting News. The Society of Uroradiology scientific session, September 1989.** *Whalen E*

17 **Perspective. How to evaluate the radiology literature.** *Black WC*

CHEST RADIOLOGY

23 **Radiographic detection of esophageal malpositioning of endotracheal tubes.** *Smith GM, Reed JC, Choplin RH*

27 **Visceral and nodal calcification in patients with AIDS-related *Pneumocystis carinii* infection.** *Radin DR, Baker EL, Klatt EC, et al.*

33 **The anterior wall stripe of the left lower lobe bronchus on the lateral chest radiograph: CT correlative study.** *Lang EV, Friedman PJ*

41 **CT appearance of the retroaortic anastomoses of the azygos system.** *Takasugi JE, Godwin JD*

45 **CT and chest radiography are equally sensitive in the detection of pneumothorax after CT-guided pulmonary interventional procedures.** *Murphy FB, Small WC, Wichman RD, Chalif M, Bernardino ME*

47 **Case report. Life-threatening hemorrhage due to percutaneous transthoracic intervention: importance of the internal mammary artery.** *Glassberg RM, Sussman SK*

51 **Lung hernia: radiographic features.** *Bhalla M, Leitman BS, Forcade C, Stern E, Naidich DP, McCauley DI*

55 **Pictorial essay. CT of blunt chest trauma.** *Kerns SR, Gay SB*

61 **Dysphagia due to mediastinal fibrosis in advanced pulmonary tuberculosis.** *Ramakantan R, Shah P*

65 **Case report. Malignant fibrous histiocytoma of the lung in a patient with a history of asbestos exposure.** *Reifsnyder AC, Smith HJ, Mullhollan TJ, Lee EL*

67 **Case report. The differentiation of radiation fibrosis from recurrent neoplasia: a role for ^{31}P MR spectroscopy?** *Charles HC, Baker ME, Hathorn JW, Sostman D*

69 **Case report. Effusion in the superior pericardial recess simulating a mediastinal mass.** *Winer-Muram HT, Gold RE*

GASTROINTESTINAL RADIOLOGY

73 **Ileoanal pouches: comparison of CT, scintigraphy, and contrast enemas for diagnosing postsurgical complications.** *Thoeni RF, Fell SC, Engelstad B, Schrock TR*

79 **CT of the extrahepatic bile ducts: wall thickness and contrast enhancement in normal and abnormal ducts.** *Schulte SJ, Baron RL, Teefey SA, et al.*

87 **Pictorial essay. Caudate lobe of the liver: anatomy, embryology, and pathology.** *Dodds WJ, Erickson SJ, Taylor AJ, Lawson TL, Stewart ET*

95 **Gastrointestinal complications of cytosine-arabinoside chemotherapy: findings on plain abdominal radiographs.** *Tjon A Tham RTO, Vlasveld LT, Willemze R*

99 **The diagnosis of bowel infarction: a comparison of plain films and CT scans in 23 cases.** *Smerud MJ, Johnson CD, Stephens DH*

105 **Case report. Blue rubber bleb nevus syndrome: CT diagnosis of intussusception.** *Tyrrel RT, Baumgartner BR, Montemayor KA*

107 **Sonographic detection of pneumoperitoneum in patients with acute abdomen.** *Lee DH, Lim JH, Ko YT, Yoon Y*

GENITOURINARY RADIOLOGY

111 **Self-retaining intraurethral stent: an alternative to long-term indwelling catheters or surgery in the treatment of prostatism.** *Yachia D, Lask D, Rabinson S*

115 **The posterior intercostal approach for percutaneous renal procedures: risk of puncturing the lung, spleen, and liver as determined by CT.** *Hopper KD, Yakes WF*

119 **Case report. Surgical lateral ovarian transposition: CT appearance.** *Newbold R, Safrit H, Cooper C*

MUSCULOSKELETAL RADIOLOGY

121 **Rotator cuff tears: diagnosis with sonography.** *Vick CW, Bell SA*

125 **Sonographic evaluation of bone production at the distraction site in Ilizarov limb-lengthening procedures.** *Young JWR, Kostrubiak IS, Resnik CS, Paley D*

129 **Review. The current role of tenography and bursography.** *Baker KS, Gilula LA*

135 **Treatment of suppurative arthritis by percutaneous catheter drainage.** *Renner JB, Agee MW*

PEDIATRIC RADIOLOGY

139 **Ovarian teratomas: a comparison of the sonographic appearance in prepubertal and postpubertal girls.** *Sisler CL, Siegel MJ*

143 **Sonography of facial features of alobar and semilobar holoprosencephaly.** *McGahan JP, Nyberg DA, Mack LA*

149 **Technical note. Magnet catheter for removal of magnetic foreign bodies.** *Towbin RB, Dunbar JS, Rice S*

NEURORADIOLOGY

151 **Assessment of extradural degenerative disease with Gd-DTPA–enhanced MR imaging: correlation with surgical and pathologic findings.** *Ross JS, Modic MT, Masaryk TJ, Carter J, Marcus RE, Bohlman H*

159 **Tears of the anulus fibrosus: assessment with Gd-DTPA–enhanced MR imaging.** *Ross JS, Modic MT, Masaryk TJ*

163 **Synovial cysts of the lumbosacral spine: diagnosis by MR imaging.** *Liu SS, Williams KD, Drayer BP, Spetzler RF, Sonntag VKH*

167 **MR imaging of Tolosa-Hunt syndrome.** *Yousem DM, Atlas SW, Grossman RI, Sergott RC, Savino PJ, Bosley TM*

VASCULAR RADIOLOGY

171 **Percutaneous transluminal angioplasty of the infrapopliteal arteries: results in 53 patients.** *Bakal CW, Sprayregen S, Scheinbaum K, Cynamon J, Veith FJ*

175 **Diagnosis of femoropopliteal venous thrombosis with MR imaging: a comparison of four MR pulse sequences.** *Totterman S, Francis CW, Foster TH, Brenner B, Marder VJ, Bryant RG*

179 **Technical note. Catheter for conversion of retrograde to antegrade femoral artery catheterization.** *Patel YD*

181 **Case report. Transcatheter embolization of a ruptured abdominal aortic stump.** *Terasaki KK, Allgood M, Finck EJ, Pentecost MJ*

183 **Technical note. Simple technique for redirecting malpositioned central venous catheters.** *Recht MP, Burke DR, Meranze SG, Cope C*

RADIATION BIOLOGY

185 **Estimated fetal radiation dose from multislice CT studies.** *Felmlee JP, Gray JE, Leetzow ML, Price JC*

OTHER CONTENT

Book reviews and videotape reviews 16, 32, 40, 50, 54, 64, 72, 86, 94, 114, 124, 134, 142, 158

71 **ARRS 1990 resident award papers information**

118 **Memorial, Paul L. Rogers**

191 **The Society of Uroradiology 1989 meeting abstracts from 1989**

199 **Letters**

206 **Books received**

207 **Review of current literature**

212 **Forthcoming articles**

213 **News**

216 **Invitation to the 1990 ARRS meeting**

219 **1990 ARRS meeting summary**

220 **ARRS membership information and application**

223 **American Roentgen Ray Society information**

224 **Classified advertisements**

A3 **Guidelines for authors**

A8 ***AJR* business and subscriber information**

February 1990

SPECIAL ARTICLES

233 **Perspective. Hemostatic evaluation before abdominal interventions: an overview and proposal.** *Silverman SG, Mueller PR, Pfister RC*

239 **Commentary. Assessing hemostatic function before abdominal interventions.** *Rapaport SI*

CHEST RADIOLOGY

241 **Review. Imaging of pulmonary sequestration.** *Felker RE, Tonkin ILD*

251 **Mediastinal lymph node enlargement on CT scans in patients with usual interstitial pneumonitis.** *Bergin C, Castellino RA*

255 **CT demonstration of calcification in carcinoma of the lung.** *Mahoney MC, Shipley RT, Corcoran HL, Dickson BA*

259 **Case report. Cystic teratoma of the mediastinum: demonstration of fat/fluid level.** *Fulcher AS, Proto AV, Jolles H*

BREAST RADIOLOGY

261 **Technical note. A new device for evaluation of biopsy specimens of occult breast lesions.** *Lindfors KK, Lott SA, Alberhasky MT*

265 **Diagnostic quality of mammograms obtained with a new low-radiation-dose dual-screen and dual-emulsion film combination.** *Wojtasek DA, Teixidor HS, Govoni AF, Gareen IF*

GASTROINTESTINAL RADIOLOGY

271 **Clinical and radiologic features of malignant neoplasms in organ transplant recipients: cyclosporine-treated vs untreated patients.** *Honda H, Barloon TJ, Franken EA Jr, Garneau RA, Smith JL*

275 **Sonographic diagnosis of perforation in patients with acute appendicitis.** *Borushok KF, Jeffrey RB Jr, Laing FC, Townsend RR*

279 **Technical note. Double-contrast enema: a simplified method for filling the colon.** *Gelfand DW, Ott DJ*

281 **Limitations in the CT diagnosis of acute diverticulitis: comparison of CT, contrast enema, and pathologic findings in 16 patients.** *Balthazar EJ, Megibow A, Schinella RA, Gordon R*

287 **Pictorial essay. The differential diagnosis of ringed hepatic lesions in MR imaging.** *Hahn PF, Stark DD, Saini S, et al.*

291 **Gallstone extracorporeal shock wave lithotripsy: time and treatment considerations.** *Nelson RC, Rowland GA, Torres WE, Baumgartner BR*

GENITOURINARY RADIOLOGY

295 **The value of MR imaging in distinguishing leiomyomas from other solid pelvic masses when sonography is indeterminate.** *Weinreb JC, Barkoff ND, Megibow A, Demopoulos R*

301 **Perspective. Current status of adult uroradiology: a survey of members of the Society of Uroradiology.** *Barloon TJ, Brown RC, Berbaum KS*

305 **Case report. Pericaliceal varices due to the nutcracker phenomenon.** *Trambert JJ, Rabin AM, Weiss KL, Tein AB*

307 **Case report. Intratumoral fat in a renal oncocytoma mimicking angiomyolipoma.** *Curry NS, Schabel SI, Garvin AJ, Fish G*

MUSCULOSKELETAL RADIOLOGY

309 **The frequency and diagnostic significance of periostitis in chondroblastoma.** *Brower AC, Moser RP, Kransdorf MJ*

315 **Pictorial essay. CT findings of degenerative arthritis of the atlantoodontoid joint.** *Genez BM, Willis JJ, Lowrey CE, et al.*

319 **Expert advice. Diagnostic imaging of the temporomandibular joint: recommendations for use of the various techniques.** *Helms CA, Kaplan P*

323 **Masses of the hand and wrist: detection and characterization with MR imaging.** *Binkovitz LA, Berquist TH, McLeod RA*

327 **Scintigraphic findings in patients with shoulder pain caused by interleukin-2.** *Baron NW, Davis LP, Flaherty LE, Muz J, Valdivieso M, Kling GA*

331 **Spontaneous osteonecrosis of the knee: value of MR imaging in determining prognosis.** *Björkengren AG, AlRowaih A, Lindstrand A, Wingstrand H, Thorngren K-G, Pettersson H*

337 **Is MR better than arthrography for evaluating the ligaments of the wrist? In vitro study.** *Gundry CR, Kursunoglu-Brahme S, Schwaighofer B, Kang HS, Sartoris DJ, Resnick D*

343 **Case report. Imaging findings in a patient with pentazocine-induced myopathy.** *De Schepper AMA, Degryse HRM*

PEDIATRIC RADIOLOGY

345 **Ultrafast CT of laryngeal and tracheobronchial obstruction in symptomatic postoperative infants with esophageal atresia and tracheoesophageal fistula.** *Kao SCS, Smith WL, Sato Y, Franken EA Jr, Kimura K, Soper RT*

NEURORADIOLOGY

351 **Loculated intracranial leptomeningeal metastases: CT and MR characteristics.** *Lee Y-Y, Tien RD, Bruner JM, De Pena CA, Van Tassel P*

361 **Reversal sign on CT: effect of anoxic/ischemic cerebral injury in children.** *Han BK, Towbin RB, De Courten-Myers G, McLaurin RL, Ball WS Jr*

369 **High-intensity basal ganglia lesions on T1-weighted MR images in neurofibromatosis.** *Mirowitz SA, Sartor K, Gado M*

375 **Three-dimensional gradient-recalled MR imaging as a screening tool for the diagnosis of cervical radiculopathy.** *Tsuruda JS, Norman D, Dillon W, Newton TH, Mills DG*

385 **Intraocular lesions in patients with systemic disease: findings on MR imaging.** *Tonami H, Tamamura H, Kimizu K, et al.*

391 **Case report. Coloboma: evaluation with real-time sonography.** *Munk PL*

VASCULAR RADIOLOGY

393 **Color Doppler imaging of portosystemic shunts.** *Grant EG, Tessler FN, Gomes AS, et al.*

399 **Color Doppler sonographic imaging in the assessment of upper-extremity deep venous thrombosis.** *Knudson GJ, Wiedmeyer DA, Erickson SJ, et al.*

405 **Diagnosis of synthetic vascular graft infection: comparison of CT and gallium scans.** *Johnson KK, Russ PD, Bair JH, Friefeld GD*

411 **Invasion of the carotid artery and jugular vein by lymph node metastases: detection with sonography.** *Gritzmann N, Grasl MCh, Helmer M, Steiner E*

COMMENTARY

415 **Picture archiving and communication systems in Japan: 3 years later.** *Huang HK, Cho PS, Taira R, Ho BK, Chan KK*

OTHER CONTENT

Book and videotape reviews 286, 300, 342, 360, 374, 384, 398, 404

254 **ARRS 1990 resident award papers information**

418 **Forthcoming articles**

419 **Letters**

427 **Review of current literature**

430 **News**

435 **Invitation to the 1990 ARRS meeting**

437 **1990 ARRS meeting summary**

438 **1990 ARRS meeting courses and symposium**

441 **1990 ARRS meeting local activities**

444 **American Roentgen Ray Society information**

445 **1990 ARRS meeting registration forms**

448 **ARRS membership information and application**

451 **Classified advertisements**

A3 **Guidelines for authors**

A8 ***AJR* business and subscriber information**

March 1990

PROGRESS IN RADIOLOGY

459 **Review article. Monochorionic twinning: sonographic assessment.** *Filly RA, Goldstein RB, Callen PW*

SPECIAL ARTICLES

471 **Pictorial essay. Identification of retained firearm projectiles on plain radiographs.** *Dodd GD III, Budzik RF Jr*

477 **Perspective. A tutorial on confidence intervals for proportions in diagnostic radiology.** *Berry CC*

PULMONARY RADIOLOGY

481 **Do chest radiographic findings reflect the clinical course of patients with sarcoidosis during corticosteroid withdrawal?** *Baumann MH, Strange C, Sahn SA*

487 **CT in differential diagnosis of diffuse pleural disease.** *Leung AN, Müller NL, Miller RR*

493 **Case report. Cavitary pulmonary metastases in transitional cell carcinoma of urinary bladder.** *Alexander PW, Sanders C, Nath H*

495 **Case report. Reactivation of tuberculosis in a donor lung after transplantation.** *Carlsen SE, Bergin CJ*

GASTROINTESTINAL RADIOLOGY

499 **Ileocecal tuberculosis: CT and radiologic evaluation.** *Balthazar EJ, Gordon R, Hulnick D*

505 **Regenerating nodules of liver cirrhosis: MR imaging with pathologic correlation.** *Ohtomo K, Itai Y, Ohtomo Y, Shiga J, Iio M*

509 **Color Doppler flow imaging of liver tumors.** *Tanaka S, Kitamura T, Fujita M, Nakanishi K, Okuda S*

515 **Dynamic spin-echo imaging with Gd-DTPA: value in the differentiation of hepatic tumors.** *Van Beers B, Demeure R, Pringot J, et al.*

521 **Gallbladder contractility in patients with spinal cord injuries: a sonographic investigation.** *Nino-Murcia M, Burton D, Chang P, Stone J, Perkash I*

525 **Hydatid disease of the spleen: imaging findings in nine patients.** *Franquet T, Montes M, Lecumberri FJ, Esparza J, Bescos JM*

529 **Case report. Acute venous thrombosis after pancreas transplantation: diagnosis with duplex Doppler sonography and scintigraphy.** *Boiskin I, Sandler MP, Fleischer AC, Nylander WA*

533 **Technical note. Treatment of acute esophageal food impaction with a combination of glucagon, effervescent agent, and water.** *Kaszar-Seibert DJ, Korn WT, Bindman DJ, Shortsleeve MJ*

GENITOURINARY RADIOLOGY

535 **Prevalence and significance of subchorionic hemorrhage in threatened abortion: a sonographic study.** *Pedersen JF, Mantoni M*

539 **Differentiation of seminomatous from nonseminomatous testicular tumors with MR imaging.** *Johnson JO, Mattrey RF, Phillipson J*

545 **Value of transperineal sonography in the assessment of vaginal atresia.** *Scanlan KA, Pozniak MA, Fagerholm M, Shapiro S*

MUSCULOSKELETAL RADIOLOGY

549 **Pictorial essay. MR imaging of the shoulder: correlation with plain radiography.** *Burk DL Jr, Karasick D, Mitchell DG, Rifkin MD*

555 **Value of MR imaging in staging osteochondral lesions of the talus (osteochondritis dissecans): results in 14 patients.** *De Smet AA, Fisher DR, Burnstein MI, Graf BK, Lange RH*

559 **Subtalar arthrorisis: evaluation with CT.** *Smith DK, Gilula LA, Totty WG*

563 **Pictorial essay. Radiologic appearance of intramuscular hemangioma with emphasis on MR imaging.** *Buetow PC, Kransdorf MJ, Moser RP Jr, Jelinek JS, Berrey BH*

PEDIATRIC RADIOLOGY

569 **The significance of hematuria in children after blunt abdominal trauma.** *Stalker HP, Kaufman RA, Stedje K*

573 **False-negative duplex Doppler studies in children with hepatic artery thrombosis after liver transplantation.** *Hall TR, Mc Diarmid SV, Grant EG, Boechat MI, Busuttil RW*

NEURORADIOLOGY

577 **MR imaging in patients with intractable complex partial epileptic seizures.** *Brooks BS, King DW, El Gammal T, et al.*

585 **Tumors of the nasopharynx and adjacent areas: MR imaging with Gd-DTPA.** *Vogl T, Dresel S, Bilaniuk LT, Grevers G, Kang K, Lissner J*

593 **The cerebellum: 3. Anatomic-MR correlation in the coronal plane.** *Press GA, Murakami JW, Courchesne E, Grafe M, Hesselink JR*

603 **CT of intracranial cryptococcosis.** *Popovich MJ, Arthur RH, Helmer E*

607 **Intracranial ganglioglioma: MR, CT, and clinical findings in 18 patients.** *Castillo M, Davis PC, Takei Y, Hoffman JC Jr*

VASCULAR RADIOLOGY

613 **Treatment of iliac artery stenoses with the Wallstent endoprosthesis.** *Raillat C, Rousseau H, Joffre F, Roux D*

617 **Technical note. Removal of intimal hyperplasia in vascular endoprostheses by atherectomy and balloon dilatation.** *Vorwerk D, Guenther RW*

621 **Technical note. A simple device to facilitate percutaneous insertion of the Kimray-Greenfield filter.** *Zagoria RJ, Scott MD, D'Souza VJ, Dyer RB*

MR IMAGING

623 **Pictorial essay. Artifacts in maximum-intensity-projection display of MR angiograms.** *Anderson CM, Saloner D, Tsuruda JS, Shapeero LG, Lee RE*

631 **Technical note. Halo vest for cervical spine fixation during MR imaging.** *Shellock FG, Slimp G*

633 **Technical note. Ghost artifact on gradient-echo imaging: a potential pitfall in hepatic imaging.** *Silverman PM, Patt RH, Baum PA, Teitelbaum GP*

COMPUTER PAGE

635 **Planning a totally digital radiology department.** *Huang HK, Kangarloo H, Cho PS, Taira RK, Ho BKT, Chan KK*

641 **Computer-aided management of residents' on-call and vacation schedules.** *Kahn CE Jr*

MEETING NEWS

645 **Summary of the 1989 American College of Radiology summit meeting.** *McClennan BL, Hartman GW*

COMMENTARIES

647 **Review article. Technology assessment: The contribution of professional organizations.** *Hendee WR*

652 **Implications of technology assessment for the radiologist.** *Rosenquist CJ*

OTHER CONTENT

470 **Melvin M. Figley Fellowship recipient**

Book reviews 476, 486, 504, 532, 544, 554, 568, 572, 576, 584, 630, 644

640 **Forthcoming articles**

654 **Letters**

661 **Review of current literature**

667 **News**

671 **SPR Scientific Program: 33rd annual meeting, April 19–22**

673 **Invitation to 1990 ARRS meeting**

675 **ARRS 1990 meeting summary**

676 **ARRS 1990 meeting courses and symposium**

679 **1990 ARRS meeting registration forms**

682 **American Roentgen Ray Society information**

683 **Classified advertisements**

A3 **Guidelines for authors**

A16 ***AJR* business and subscriber information**

April 1990

SPECIAL ARTICLES

691 **Progress in radiology. State of the art: endorectal sonography of the prostate gland.** *Rifkin MD, Dähnert W, Kurtz AB*

701 **Review article. Radiologic evaluation of the solitary pulmonary nodule.** *Webb WR*

PULMONARY RADIOLOGY

709 **Does knowledge of the clinical history affect the accuracy of chest radiograph interpretation?** *Good BC, Cooperstein LA, DeMarino GB, et al.*

BREAST RADIOLOGY

713 **New mammography screen/film combinations: imaging characteristics and radiation dose.** *Kimme-Smith C, Bassett LW, Gold RH, Zheutlin J, Gornbein JA*

GASTROINTESTINAL RADIOLOGY

721 **Doppler sonography: a noninvasive method for evaluation of hepatic venocclusive disease.** *Brown BP, Abu-Yousef M, Farner R, LaBrecque D, Gingrich R*

725 **Fluoroscopically guided percutaneous gastrostomy and gastroenterostomy: analysis of 158 consecutive cases.** *Hicks ME, Surratt RS, Picus D, Marx MV, Lang EV*

729 **Pictorial essay. Imaging of and intervention for biliary complications after hepatic transplantation.** *Letourneau JG, Hunter DW, Payne WD, Day DL*

GENITOURINARY RADIOLOGY

735 **Selective osteal salpingography and transvaginal catheter dilatation in the diagnosis and treatment of fallopian tube obstruction.** *Lang EK, Dunaway HE Jr, Roniger WE*

741 **Case report. Uterine perforation simulating urachal carcinoma: CT diagnosis.** *Kronthal AJ, Fishman EK, Sanders RC, Epstein JI, Kuhlman JE, Brendler CB*

MUSCULOSKELETAL RADIOLOGY

745 **Early and late bone-marrow changes after irradiation: MR evaluation.** *Stevens SK, Moore SG, Kaplan ID*

751 **Cervical spondylolysis: imaging findings in 12 patients.** *Forsberg DA, Martinez S, Vogler JB III, Wiener MD*

757 **Traumatic lumbar hernia: CT diagnosis.** *Faro SH, Racette CD, Lally JF, Wills JS, Mansoory A*

761 **Case report. CT diagnosis of posterior perineal hernia.** *Lubat E, Gordon RB, Birnbaum BA, Megibow AJ*

763 **The value of MR imaging in monitoring the effect of chemotherapy on bone sarcomas.** *Holscher HC, Bloem JL, Nooy MA, Taminiau AHM, Eulderink F, Hermans J*

771 **Pictorial essay. MR imaging of sacral and presacral lesions.** *Wetzel LH, Levine E*

777 **Technical note. MR of the shoulder with a 0.2-T permanent-magnet unit.** *Sasaki M, Ehara S, Nakasato T, et al.*

PEDIATRIC RADIOLOGY

779 **Diagnostic quality of portable abdominal radiographs in neonates with necrotizing enterocolitis: digitized vs nondigitized images.** *Gross GW, Ehrlich SM, Wang Y*

785 **Doppler evaluation of renal transplants in children: a prospective analysis with histopathologic correlation.** *Drake DG, Day DL, Letourneau JG, et al.*

789 **Coronary angiography of pulmonary atresia, hypoplastic right ventricle, and ventriculocoronary communications.** *Burrows PE, Freedom RM, Benson LN, et al.*

797 **Pictorial essay. Current evaluation of the patient with abnormal visceroatrial situs.** *Hernanz-Schulman M, Ambrosino MM, Genieser NB, et al.*

803 **Case report. Bowel obstruction in an infant with AIDS.** *Sivit CJ, Taylor GA, Patterson K, Thompson R, Josephs SH*

806 **Case report. Cervical and basicranial diastematomyelia.** *Herman TE, Siegel MJ*

NEURORADIOLOGY

809 **Gd-DTPA–enhanced MR imaging of the brain in patients with meningitis: comparison with CT.** *Chang KH, Han MH, Roh JK, Kim IO, Han MC, Kim C-W*

817 **Age-related changes in the cervical facet joints: studies with cryomicrotomy, MR, and CT.** *Fletcher G, Haughton VM, Ho K-C, Yu S*

821 **Lumbar disk herniation and canal stenosis: value of intraoperative sonography in diagnosis and surgical management.** *Montalvo BM, Quencer RM, Brown MD, et al.*

831 **Primary cerebral neuroblastoma: CT and MR findings in 12 cases.** *Davis PC, Wichman RD, Takei Y, Hoffman JC Jr*

837 **Intracranial ependymoma and subependymoma: MR manifestations.** *Spoto GP, Press GA, Hesselink JR, Solomon M*

INTERVENTIONAL RADIOLOGY

847 **Technical note. A simple phantom for learning needle placement for sonographically guided biopsy.** *Silver B, Metzger TS, Matalon TAS*

849 **Technical note. Endovaginal sonography for guidance in draining pelvic fluid collections.** *Abbitt PL, Goldwag S, Urbanski S*

VASCULAR RADIOLOGY

851 **Lower-extremity venous thrombosis in patients with acute hip fractures: determination of anatomic location and time of onset with compression sonography.** *Dorfman GS, Froehlich JA, Cronan JJ, Urbanek PJ, Herndon JH*

857 **Early detection of saphenous vein arterial bypass graft stenosis by color-assisted duplex sonography: a prospective study.** *Polak JF, Donaldson MC, Dobkin GR, Mannick JA, O'Leary DH*

RADIATION PHYSICS

863 **Computer page. Performing JCAHO dose calculations with the aid of a microcomputer spreadsheet program.** *David G, Price SC*

PERSPECTIVES

867 **Attitudes of American radiologists toward their practices: present and future.** *Brogdon BG, Heveron ED, Diamond JJ*

871 **Technical note. Autoradiology: patient heal thyself.** *Gay SB, Selby JB Jr, Selby HG*

MEETING NEWS

875 **Colon cancer: diagnosis in an era of cost containment. ACR Conference, November 8, 1989.** *Whalen E*

CASE OF THE DAY

883 **Introduction.** *Stull MA*

884 **Chest case of the day.** *Stull MA, Clark LR, Reagan K, et al.*

888 **Abdominal case of the day.** *Silverman PM, Hayes WS, Cooper CJ, et al.*

890 **Musculoskeletal case of the day.** *Stull MA, Glass-Royal MW*

893 **Neuroradiology case of the day.** *Deveikis JP, Cammarata CA, Reid WM, et al.*

OTHER CONTENT

Book and videotape reviews 744, 770, 776, 788, 796, 862, 870, 882

784 **Memorial, Norman Glazer**

856 **Forthcoming articles**

897 **Letters**

905 **Review of current literature**

909 **News**

913 **ARRS 1990 meeting summary**

914 **ARRS 1990 meeting courses and symposium**

916 **Books received**

917 **American Roentgen Ray Society information**

918 **Classified advertisements**

A3 **Guidelines for authors**

A18 ***AJR* business and subscriber information**

May 1990

HANSON LECTURE

927 **Adrenal imaging: current status.** *Dunnick NR*

PROGRESS IN RADIOLOGY

937 **MR angiography.** *Edelman RR, Mattle HP, Atkinson DJ, Hoogewoud HM*

947 **Percutaneous ethanol injection therapy for the treatment of hepatocellular carcinoma.** *Shiina S, Tagawa K, Unuma T, Terano A*

REVIEW ARTICLES

953 **Physiology and radiology of the normal oral and pharyngeal phases of swallowing.** *Dodds WJ, Stewart ET, Logemann JA*

965 **Radiologic assessment of abnormal oral and pharyngeal phases of swallowing.** *Dodds WJ, Logemann JA, Stewart ET*

CHEST RADIOLOGY

975 **Comparison of Biello, McNeil, and PIOPED criteria for the diagnosis of pulmonary emboli on lung scans.** *Webber MM, Gomes AS, Roe D, La Fontaine RL, Hawkins RA*

983 **Bronchiolitis obliterans organizing pneumonia: CT features in 14 patients.** *Müller NL, Staples CA, Miller RR*

989 **MR imaging of thoracic and abdominal wall infections: comparison with other imaging procedures.** *Sharif HS, Clark DC, Aabed MY, Aideyan OA, Haddad MC, Mattsson TA*

997 **Case report. Laryngeal chondrosarcoma: CT findings in three patients.** *Muñoz A, Peñarrocha L, Gallego F, Olmedilla G, Poch-Broto J*

999 **Case report. Wooden foreign body in the lung parenchyma.** *Spouge AR, Weisbrod GL, Herman SJ, Chamberlain DW*

GASTROINTESTINAL RADIOLOGY

1003 **Percutaneous gastrostomy with gastropexy: experience in 125 patients.** *Saini S, Mueller PR, Gaa J, et al.*

1007 **Angioplasty for long-term treatment of patients with Budd-Chiari syndrome.** *Martin LG, Henderson JM, Millikan WJ Jr, Casarella WJ, Kaufman SL*

1011 **CT of the abdomen after the Whipple procedure: value in depicting postoperative anatomy, surgical complications, and tumor recurrence.** *Coombs RJ, Zeiss J, Howard JM, Thomford NR, Merrick HW*

1015 **Case report. Hepatic subcapsular hematoma: an unusual complication of biliary lithotripsy.** *McGrath FP, Lee SH, Gibney RG, Burhenne HJ*

MUSCULOSKELETAL RADIOLOGY

1017 **Adult ankle fractures: comparison of plain films and interactive two- and three-dimensional CT scans.** *Magid D, Michelson JD, Ney DR, Fishman EK*

1025 **Insufficiency fracture of the sternum caused by osteopenia: plain film findings in seven patients.** *Chen C, Chandnani V, Kang HS, et al.*

1029 **Pictorial essay. The Neer classification of displaced proximal humeral fractures: spectrum of findings on plain radiographs and CT scans.** *Kilcoyne RF, Shuman WP, Matsen FA III, Morris M, Rockwood CA*

PEDIATRIC RADIOLOGY

1035 **Review article. Differentiation of child abuse from osteogenesis imperfecta.** *Ablin DS, Greenspan A, Reinhart M, Grix A*

1047 **Commentary. Differentiation of child abuse and osteogenesis imperfecta: medical and legal implications.** *Kleinman PK*

1049 **Case report. Prenatal detection of an abdominal mass by MR imaging performed while the fetus is immobilized with pancuronium bromide.** *Tomá P, Lucigrai G, Dodero P, Lituania M*

1051 **Case report. Castleman disease in the neck: atypical appearance on CT.** *Chaloupka JC, Castillo M, Hudgins P*

NEURORADIOLOGY

1053 **The role of ferritin and hemosiderin in the MR appearance of cerebral hemorrhage: a histopathologic biochemical study in rats.** *Thulborn KR, Sorensen AG, Kowall NW, et al.*

1061 **Carotid artery disease assessed by color Doppler flow imaging: correlation with standard Doppler sonography and angiography.** *Steinke W, Kloetzsch C, Hennerici M*

1069 **Pseudoatrophy of the cervical portion of the spinal cord on MR images: a manifestation of the truncation artifact?.** *Yousem DM, Janick PA, Atlas SW, et al.*

ENDOCRINE RADIOLOGY

1075 **The diagnosis of acromegaly: value of inferior petrosal sinus sampling.** *Doppman JL, Miller DL, Patronas NJ, et al.*

1079 **CT evaluation of anaplastic thyroid carcinoma.** *Takashima S, Morimoto S, Ikezoe J, et al.*

1087 **Nonsurgical treatment of primary hyperparathyroidism with sonographically guided percutaneous injection of ethanol: results in a selected series of patients.** *Karstrup S, Holm HH, Glenthøj A, Hegedüs L*

ANGIOGRAPHY AND INTERVENTIONAL RADIOLOGY

1091 **A solution to the problem of high-flow jets from miniature angiographic catheters.** *Daniel TB, Akins EW, Hawkins IF Jr*

1097 **Case report. Transcatheter thrombosis of a leaking saccular aneurysm of the main renal artery with preservation of renal blood flow.** *Routh WD, Keller FS, Gross GM*

1101 **Technical note. Use of the Hawkins-Hunter rocket wire in the biliary system.** *Shaw DWW, Coldwell DM, Kimmey M, Goldman ML*

1103 **Technical note. Complications from 0.018-in. floppy platinum tip guidewires.** *Quinn SF, Morse S*

1105 **Case report. Phlegmasia cerulea dolens, a complication after placement of a bird's nest vena cava filter.** *Aruny JE, Kandarpa K*

RADIOLOGIC TECHNOLOGY

1107 **Evaluation of radiographs developed by a new ultrarapid film processing system.** *Schmidt RA, Doi K, Sekiya M, et al.*

PERSPECTIVES

1111 **The radiology manpower equation: a new look.** *Brogdon BG*

1117 **Quality improvement in diagnostic radiology.** *Cascade PN*

OTHER CONTENT

952 **Memorial, Glen W. Hartman**

Book and videotape reviews 964, 982, 988, 1002, 1024, 1028, 1034, 1060, 1074, 1078, 1096, 1100

1086 **Memorial, Robert James Borgerson**

1121 **Letters**

1129 **Review of current literature**

1134 **Forthcoming articles**

1135 **News**

1138 **ARRS membership information and application**

1141 **American Roentgen Ray Society Information**

1142 **Classified advertisements**

A3 **Guidelines for authors**

A8 ***AJR* business and subscriber information**

June 1990

SPECIAL ARTICLES

1149 **Review. Medical decision making: practical points for practicing radiologists.** *Phillips WC Jr, Scott JA*
1157 **Expert advice. Radiologic investigation of dysphagia.** *Levine MS, Rubesin SE*
1165 **Review. Pitfalls in the radiologic diagnosis of lung cancer.** *Woodring JH*

CHEST RADIOLOGY

1177 **Pulmonary blastomycosis: findings on chest radiographs in 63 patients.** *Sheflin JR, Campbell JA, Thompson GP*
1181 **Percutaneous biopsy of thoracic lesions: value of sonography for needle guidance.** *Ikezoe J, Morimoto S, Arisawa J, Takashima S, Kozuka T, Nakahara K*
1187 **Case report. Whipple disease of the mediastinum.** *Samuels T, Hamilton P, Shaw P*
1189 **Case report. Bilateral internal mammary artery aneurysms: a previously unreported cause for an anterior mediastinal mass.** *Giles JA, Sechtin AG, Waybill MM, Moser RP Jr*

BREAST RADIOLOGY

1191 **Stereotactic fine-needle aspiration for cytologic diagnosis of nonpalpable breast lesions.** *Löfgren M, Andersson I, Lindholm K*
1196 **Commentary. Stereotactic fine-needle aspiration biopsy for nonpalpable breast lesions.** *Jackson VP, Bassett LW*

GASTROINTESTINAL RADIOLOGY

1199 **The value of sonography in the diagnosis of acute diverticulitis of the colon.** *Wilson SR, Toi A*
1203 **CT of hilar cholangiocarcinoma: late contrast enhancement in six patients.** *Takayasu K, Ikeya S, Mukai K, Muramatsu Y, Makuuchi M, Hasegawa H*
1207 **Pictorial essay. CT of the abdominal wall.** *Goodman P, Raval B*
1213 **Technical note. Common bile duct biopsy with the Simpson atherectomy catheter.** *Kim D, Porter DH, Siegel JB, Mowschenson PM, Steer ML*
1217 **Case report. Obstructing villous adenoma and papillary adenomatosis of the bile ducts.** *Harshfield DL, Teplick SK, Stanton M, Tunuguntla K, Diner WC, Read RC*
1219 **Case report. Combined systemic and portal venous gas: sonographic and CT detection in two cases.** *Kriegshauser JS, Reading CC, King BF, Welch TJ*

GENITOURINARY RADIOLOGY

1223 **Intrarenal arterial Doppler sonography in patients with nonobstructive renal disease: correlation of resistive index with biopsy findings.** *Platt JF, Ellis JH, Rubin JM, DiPietro MA, Sedman AB*
1229 **Heating of the scrotum by high-field-strength MR imaging.** *Shellock FG, Rothman B, Sarti D*

MUSCULOSKELETAL RADIOLOGY

1233 **Jogging causes acute changes in the knee joint: an MR study in normal volunteers.** *Kursunoglu-Brahme S, Schwaighofer B, Gundry C, Ho C, Resnick D*
1237 **MR imaging of the knee: pseudotear of the lateral meniscus caused by the meniscofemoral ligament.** *Vahey TN, Bennett HT, Arrington LE, Shelbourne KD, Ng J*
1241 **Pictorial essay. Intracapsular osteoid osteoma of the proximal femur: findings on plain film and CT.** *Schlesinger AE, Hernandez RJ*
1245 **MR imaging of the temporomandibular joint: a cadaver study of the value of coronal images.** *Schwaighofer BW, Tanaka TT, Klein MV, Sartoris DJ, Resnick D*

PEDIATRIC RADIOLOGY

1251 **Staging of Hodgkin disease in children: comparison of CT and lymphography with laparotomy.** *Baker LL, Parker BR, Donaldson SS, Castellino RA*
1257 **Case report. Arterial embolization to control life-threatening hemorrhage from a Meckel's diverticulum.** *Okazaki M, Higashihara H, Yamasaki S, Akita Y, Toriya H, Shirai Z*

NEURORADIOLOGY

1259 **Diagnosis of tumors of the parotid gland with anti-CEA immunoscintigraphy.** *Kairemo KJA, Hopsu EVM*
1263 **Pictorial essay. MR imaging of the cranial nerves.** *Lanzieri CF*
1269 **MR findings in patients with subacute necrotizing encephalomyelopathy (Leigh syndrome): correlation with biochemical defect.** *Medina L, Chi TL, DeVivo DC, Hilal SK*
1275 **Intracranial chemical-shift artifacts on MR images of the brain: observations and relation to sampling bandwidth.** *Smith AS, Weinstein MA, Hurst GC, DeRemer DR, Cole RA, Duchesneau PM*
1285 **MR signal abnormalities in memory disorder and dementia.** *Bowen BC, Barker WW, Loewenstein DA, Sheldon J, Duara R*
1293 **Posttraumatic cerebral infarction diagnosed by CT: prevalence, origin, and outcome.** *Mirvis SE, Wolf AL, Numaguchi Y, Corradino G, Joslyn JN*
1299 **Neuroimaging of disseminated germ cell neoplasms.** *Mathews VP, Broome DR, Smith RR, Bognanno JR, Einhorn LH, Edwards MK*

CONTRAST MATERIAL

1305 **Case report. Excretion of gadopentetate dimeglumine in human breast milk.** *Schmiedl U, Maravilla KR, Gerlach R, Dowling CA*

COMPUTER PAGE

1307 **Computerized on-line reporting of coronary angiograms with the CLIP system.** *Kim D, Leeming BWA*

MEETING NEWS

1311 **The Society of Gastrointestinal Radiologists: 19th annual meeting, January 1990.** *Whalen E*

ARRS CASE OF THE DAY

1317 **Introduction.** *Stull MA*
1318 **Chest case of the day.** *Stull MA, Clark LR, Reagan K, et al.*
1325 **Abdominal case of the day.** *Silverman PM, Hayes WS, Cooper CJ, et al.*
1331 **Musculoskeletal case of the day.** *Stull MA, Glass-Royal M*
1337 **Neuroradiology case of the day.** *Deveikis JP, Cammarata CA, Reid WM, et al.*

OTHER CONTENT

Book reviews 1156, 1164, 1198, 1222, 1228, 1236, 1240, 1250, 1256, 1268
1176 **Robert D. Pugatch, sixth distinguished scientist, AFIP.** *Moser RP, Jr*
1186 **ARRS 1991 resident award papers information**
1284 **Memorial, Andrew E. Yeates**
1343 **Letters**
1352 **Forthcoming articles**
1353 **Review of current literature**
1360 **News**
1364 **ARRS 1991 meeting announcement, calls for papers and exhibits**
1369 **Classified advertisements**
1387 **Index, Volume 154**
A3 **Guidelines for authors**
A8 ***AJR* business and subscriber information**